

United States Department of Agriculture
Animal and Plant Health Inspection Service
4700 River Road
Riverdale, MD 20737

Permit to Move Live Plant Pests, Noxious Weeds, and Soil
Interstate Movement
Regulated by 7 CFR 330

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PERMITTEE NAME:	Mr. Micah Freedman	PERMIT NUMBER:	P526P-18-02061
ORGANIZATION:	University of California, Davis	APPLICATION NUMBER:	P526-180511-017
ADDRESS:	2320 Storer Hall, One Shields Avenue Department of Evolution and Ecology Davis, CA 95616	FACILITY NUMBER:	4296
MAILING ADDRESS:	2320 Storer Hall, One Shields Avenue Department of Evolution and Ecology Davis, CA 95616	HAND CARRY:	Yes
PHONE:	864-506-1906	DATE ISSUED:	05/21/2018
FAX:		EXPIRES:	05/21/2021
DESTINATION:	2320 Storer Hall, One Shields Avenue, Department of Evolution and Ecology, Davis, CA 95616		
RELEASE:	No		

Under the conditions specified, this permit authorizes the following:

<u>Regulated Article</u>	<u>Life Stage(s)</u>	<u>Intended Use</u>	<u>Shipment Origins</u>	<u>Originally Collected</u>	<u>Culture Designation</u>
Danaus plexippus	Any	Research - Greenhouse (growth chamber and lab included)	GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from HI or U.S. Pacific Territory	

PERMIT GUIDANCE

- 1) This permit does not authorize importation, interstate movement, possession, and/or use of strains of genetically engineered regulated organisms (created by the use of recombinant DNA technology).
- 2) If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to http://www.aphis.usda.gov/import_export/animals/animal_import/animal_imports_an_products.shtml
- 3) If a human pathogen is identified, please refer to the CDC Etiologic Agent Import Permit Program at <http://www.cdc.gov/od/eaipp/>
- 4) This permit does not fulfill the requirements of other federal or state regulatory authorities. Please contact the appropriate agencies, such as the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, the APHIS Biotechnology Regulatory Services, or your State's Department of Agriculture to ensure proper permitting.

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THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING
PPQ HEADQUARTER OFFICIAL VIA EPERMITS.

Carlos A. Blanco
Carlos Blanco

DATE

05/21/2018

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

5) If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date of this permit to ensure continued coverage. Permits requiring containment facilities may take a longer period of time to process.

PERMIT CONDITIONS

This permit authorizes Mr. Micah Freedman, University of California, Davis, 2320 Storer Hall, One Shields Avenue, Department of Evolution and Ecology, Davis, CA, to move all life stages of *Danaus plexippus* from the continental United States, Hawaii, Guam, Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands for laboratory and greenhouse research in the USDA-APHIS-approved containment Facility Number 4296 at the address above. All these conditions must be followed:

1. All packages for transport must minimally consist of both inner/primary and outer/secondary packages securely sealed so that both are effective barriers to escape or unauthorized dissemination of the listed materials/organisms. The inner/primary package(s) will contain all regulated materials/organisms and must be cushioned and sealed in such a way that it remains sealed during shock, impact, and pressure changes that may occur. The outer/secondary shipping container must be rigid and strong enough to withstand typical shipping conditions (dropping, stacking, impact from other freight, etc.) without opening.
2. *Danaus plexippus* to be transported in checked baggage or in the passenger compartment of the airplane, must be double packed in sturdy, hard-sided (no Styrofoam) escape-proof containers that have been taped shut. Carrier must bring enough tape to reseal the containers if they are inspected at any time during the trip. The permit holder must consider while packaging the regulated arthropods, the kind of rough handling that can be expected during travel including shaking and inverting the package.

While in transportation to the permitted facility in a private / state-owned vehicle, *Danaus plexippus* must be kept within a larger container sufficiently strong to remain intact in the event of a vehicle accident. Plastic ice chests secured with a nylon web strap are recommended for the outer most containment barrier. Containers should be fastened if carried in the bed of a pick-up truck.

The permit holder or their designees are authorized to transport samples and organisms in enclosed motor vehicles (i.e. no motorcycles or open-bed trucks). If stopped by law enforcement and requested to relinquish the organisms, then the permit holder must provide a copy of this permit and all conditions. Confiscated organisms must be safeguarded prior to return to the permit holder. Shipping/handling costs associated with the movement of confiscated packages are the responsibility of the permit holder. Shipments carried in vehicles must meet all packaging requirements. Any accidents during transport that compromise the security of shipment packaging must be immediately reported to the USDA via: pest.permits@aphis.usda.gov. Include the permit number and ATTN: CA Blanco in the subject line, and describe the efforts taken to contain the pests.

The permit holder, and any individuals authorized by the permit holder, may transport *Danaus*

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plexippus intrastate from the port of entry to the USDA-APHIS-approved containment Facility Number 4296 in motor vehicles. A copy of this permit should accompany the vehicular movement of the organisms.

3. This permit only covers *Danaus plexippus*. Work with plant diseases that the Monarch butterfly may transmit originating from outside of the destination state requires a separate permit.
4. Modifications to the containment facility or any changes that affect the containment of *Danaus plexippus* must be approved by APHIS prior to making changes. Please contact the Pest Permit Staff (email: pest.permits@aphis.usda.gov; phone: 866-524-5421; address: 4700 River Rd., Unit 133, Riverdale, MD 20737; Fax: 301-734-8700).
5. This authorization is not valid for field research or release into the environment.
6. *Danaus plexippus* must be maintained under escape-proof conditions in the APHIS-approved Facility Number 4296 area at the work address indicated on this permit. *Danaus plexippus* must be removed from this facility or other designated area only with prior authorization from APHIS. Only the evaluated area is authorized for containment. Other rooms require specific approval. Access to this area must be restricted to authorized personnel only.

The capacity of *Danaus plexippus* to escape (dig, claw, push, fly, or chew through wood, plastics, or metals) must be considered in containment design.

Collection methods must be available to catch escaping *Danaus plexippus*.


All materials removed from caging must be thoroughly examined for *Danaus plexippus* and follow the waste disposal condition.

7. All *Danaus plexippus* and all items coming in direct contact or exposed to *Danaus plexippus* must be sterilized/sanitized/decontaminated prior to removal from the authorized containment facility. This includes all items from shipping, culturing, care, and maintenance of *Danaus plexippus*. This requirement includes but is not necessarily limited to: packaging directly exposed to the regulated materials/organisms, substrates (culture media, soil, plant materials (food materials or host plants)), leftover/unused/unneeded live cultures, and dead specimens/cultures unless specified otherwise in the permit.

All waste materials must be treated by one of the follow methods prior to disposal:
Use any of the following, either alone or in combination: 1) autoclaved, 2) or disposed of as medical /biohazard waste with bonded contracted company or, 3) or incinerated, 4) or frozen at minus 20 Celsius (minus 4 Fahrenheit) for 72 hours (Note: this is colder than a conventional refrigerator/freezer), 5) or immersed in Sodium Hypochlorite (household bleach from the bottle is 6 percent) for at least 60 minutes, or 6) immersed in 70 percent alcohol for at least 30 minutes.

Treated waste must be double bagged prior to disposal.

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8. There is to be no further movement or distribution of *Danaus plexippus* within the United States and its territories unless the recipient holds, or is named as a responsible party on a valid PPQ526 permit for receipt Monarch butterflies.
9. The permit holder must:
 - maintain a valid PPQ526 permit so long as the regulated materials/organisms are alive or viable,
 - not assign or transfer this permit to other persons without APHIS PPQ authorization,
 - maintain an official permanent work assignment, residence, or affiliation at the address on this permit,
 - notify the Pest Permit Staff as soon as possible of any change in the permit holder's work assignment, residence, or affiliation,
 - notify the Pest Permit Staff of the receipt of unauthorized and/or misdirected shipments of regulated materials/organisms,
 - adequately mitigate environmental impacts resulting from unauthorized release of regulated materials/organisms and notify the Pest Permit staff immediately if one occurs,
 - notify the Pest Permit Staff if the facility is damaged/destroyed or if you wish to decommission the facility,
 - destroy all regulated materials/organisms prior to departure from the organization unless other arrangements are confirmed by the Pest Permit Staff.

Notifications to the Pest Permit Staff must be made via 866-524-5421 or pest.permits@aphis.usda.gov within one business day of the event triggering a notification.

10. ● This permit is issued by the United States Department of Agriculture's Animal and Plant Health Inspection Service (APHIS). It conveys APHIS regulations and requirements for the material(s) listed on this permit. It does not reduce or eliminate your legal duty and responsibility to comply with all other applicable Federal and State regulatory requirements.
 - The permit number or a copy of the permit must accompany the shipment.


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- You must be an individual at least 18 years old, or legal entity such as partnership, corporation, association, or joint venture.
- You are legally responsible for complying with all permit requirements and permit conditions.
- If you violate any applicable laws associated with this permit, you may face substantial civil or criminal penalties. We may cancel all current permits and deny future permit applications.
- Without prior notice and during reasonable hours, authorized Federal and State Regulators must be allowed to inspect the conditions associated with the regulated materials/organisms authorized under this permit.

END OF PERMIT CONDITIONS

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